# Aviation ews



Paratroopers Prove Themselves: D-Day operations were spearheaded by the greatest air-borne attack ever carried out, and early reports showed that the paratroopers and pilder forces, shown here in a maneuver in Britain, were successful beyond expectations in establishing firm pools of vertical invasion, seeing key bridges, rail junctions and smashing enemy strongpoints, virtually isolating the beaches and enabling landing forces to establish beachhead where the Germans could not bring up local reinforcements.

# Arnold Sees Cut in '45 Plane Needs

Tells House group AAF's requirements are "decidedly lower in number and considerably lower in total weight"..........Page 9

# Airlines Study Plane Returns

Representatives of seven companies seek formula for determining prices at special meeting in Chicago .......Page 39

# Invasion Supreme Test for AAF

## Invasion Effect on Schedules

# Airline Officials' Stock Purchases Buying of equities in own firms is 7½ times sales during April;

# Navy's Warplane Range Extended

# Termination Article Adopted

Board acts to speed subcontractor settlements; summary of week's activities on industrial mobilization front......Page 11

# Piper Developments Appraised

Company's role in supplying Civil Pilot Training program puts it in position to dominate postwar lightplane field.....Page 16



INCIDENCE AND BUILDING OF DIL PERSONNES CONCERNES SINCE 1921

# the AVIATION NEWS Washington Observer

DYAMON.—The not topic of conversation is Washington in the invoice When the word ease through int Treedup that trapes had heced through int Treedup that trapes had heper and will remain recordant yauf the parties hegies to dress. Many things hang on the statement of the leading-bod-polyte, production, neconverient of the statement of the progress of the conpages of Bherriches energies more carefully. Withlegies can be expected to be completely belocked in the contraction of the contraction of the conration allowing the trapes in the emission.

RECONVERSION DELAY—With the invaional dealing with perceivant at the extraction of coals dealing with perceivation of the dealing with perceivation of the extraction to the dealing perceivant with an outlined in the listuch-forced regard and which at the time of its manner sees months ago was almost unanamagin seesped as perfecting the way back to normal operations. There are even some hints that is noncensity production is be-

UTBLIZATION—WPB officials my that the goal of the phanting and preparations for passection exterprate may be memored up in four words—full attituation of ensurers, which, it statistics, would bring more degree of proposition of the property of the proper

work of about 10,000 additional ficus is finited to subcontract operations. WPB afficials point out that in order to make full use of their resources, these execens will need a big volume of civilian orders before war contracts are enseelled in built.

AAP LEASES—Army Air Peren has begun sleeying the question of leased facilities, and where possible will cased leases and more activities asia government-sweet installations. Air impediant have been take to ferry out storar impediant have been take to ferry out stor-

GLIDIE SUBPLISHOR of the wanty surplus problems before the survices is disparal of serves of unall two-place trabalog glides. Many have never been uncreated. Insiderations have gone and from Wishington for an inventory in a result of security models for all

Nany have never been uncreated. Instructions have gone out from Washington for an investor, as a result of requests mode by at feest two association for information on number and Md procedure.

continued to the contin

Paramaruses po "on the double" into an assuming tresupport plan-





AVIATION NEWS

тня внотой

Editedal Herdquarters, 1337-63 National Prop Building.

objection and Derentice Office

Washington Observer

HEARTENING NIGN-A beartening den for

agreed to manniam.

menulacturing communics can be read into the agreement by which 17 of the nation's largest fund for Deegles The Deegles agreement conbodies no poversement guarantees, and use of programment advances is retained by the company. The money is placed at the disposal of the company for current and post-war operations as a supplement to the \$25,000,000 minimum net working capital the company has

PAN AMERICAN POLICY-Pen American monopoly, view of most of the domestic air-

the conserver's affiliate has been well known. he saked shringically whether the nation wanted 16 ar 15 competing appears ninfines in post-war hel, or our strong U. S. intercoduced surkee, perhaps a "community company," controlled by government-appeared organization plan

INCREASED PLYING TOR THE ARMY...

year actually increase offer the dictestic contruets are crossed off, although the work will he describered differently. This is predicated an the automated retention of ATCs ocean contracts and increased tempo in flights of this type abreed. In the meantime, reports freen several sources are that the War Department is endeavoring to annehronize the demestic canally of eccusion of its contract, threed to fit in an well as possible with its commercial operation

ROADABLE PLANE-The combination cost

SECRET WEAPONS-Wassing makeners in the nubbe, bears used in the attack on Europe. will be revealed from time to time as they are contined by the enemy. Next of them are in eviation, and the nickerae traces (clider and parachate) who specialize in surprise faction you then any other branch of service. It takes tive to develop and test new versions. The Affici are now evening the score with the Germany, who worked at war innovations for years.

POST-WAR RESEARCH-This subject dis-

This attitude is not negative in Washington.

will do for the Army will not be reduced and AVIATION NEWS . Jury 15, 1644

part is used to identify con-

persions as well as to more

erties are preded.

part must remain

stable over a wide in confidence



THIS VULCOID peak from arcs as well as shock and also retain its elecunder adverse conditions.



THIS CELORON part had to be of a material that was a good insulator and

THIS DIAMOND FIBRE

part had to be of a deep drawn, that was resilient, tough and

WHAT MATERIALS

NONTINENTAL DIAMOND manufactures Electrical C Insulating Materials that are engineered to meet specific electrical, as well as mechanical and thermal conditions. That's why C-D products are used in all types of Military Equipment where possibility of failure must be reduced to a minimum

C.D. suchnicusus will be glad to help you remyer

Continental - Diamond FILLE COMPANY toblished 1895. Manufacturers of Laminated Finstics since 1911-NEWARE 4 • DELAWARE



straying factories and drawing off

#### New Concept of Tactical Air Force Gets Supreme Test in Invasion

Vast numbers of planes open big offensive, providing air cover, paralyzing Nazi communication and furnishing extra fire power for ground troops,

#### By WILLIAM G. KEY

But air effects in Wishington ) Objective Air Control-It can be possits. In the fruith phase, tac-

operations of the war Over-Strategy. The first those was its six-borns with in the sixth



power were completed. If the two outside rows, gladers in the center, AVIATION NEWS . June 13, 1944



Officer Assembly Base in Englands In the open fields of England, as areal you the air strongth that protected them, that photos some token channel. In the background are the completed observ, while in the

h Corollary.... There is a carollary Of Empire Airmen Latest figures released on ac-

Canada Main Source

extent that planes are available.

# Octown says it furnished 25 nor-

Nazi Strength 125 Percent Canadian-The re-

#### AVIATION CALENDAR

Ang J.S. Mallored Spacerson Marrials, National Set. 51-505 Support Airmit Engineeres British tactical command are

In Western Benisphere opera-

#### AAF Overseas

pots and storage bases both for

Irelanding that Nam trans-

#### Budget Needs for Fiscal 1945 Sharply Under 1944, Says Arnold

General tells House eroup AAF's recurrements for coming year are "decidedly lower in number and considerably lower in total weight" than 1944 estimates.

Alighing recognizated shown comber 1948 or six months laught cal year 1946 are, according to He selded that since this produc-Gen. H. H. Armold's testimony tion is well under way, only an from those in the fiscal year 1944. The emphasis is on combal planes." Fresh by June 18-The air forces propriatizes. Subceremillor that mald seed, built up to their planned

since some of the 1944 procure- sizearth by Juge 30 of this year

\$11,000,000,000 which, with certain He disclosed that in order to. applied against these resumments. > Putere of Hellowster-In corner and so reduce necessary appropripary to order a sufficient number

tation \$81,000,000, contractoral \$1.500,000 and equipment, 59.-Provide for Modification - The

ments of \$5,000,000,000 for sirsunre parts, an estimate of \$100,-In view of the aerborne opera-

at \$50,000,000, a figure which



BRITISH HONOR AMERICAN ENGINEERS:

AVIATION NEWS . June 12, 1944

Wright, who was smoble to be precent, Lord Halt/ax,

obligated latch and designates

with them is pretty much emper- miller recommended that the CMP icel."

The production of helicopters. critical common components as called for \$200 additional such As Ferry bury mighthest a free

ture. We are proceeding slowly be- for credim use in view of the large

10-Hr. vs. 8 Hr. Day Studied By WPB

Advantages of both Issed in memorandum; summer of Douglas Financing On 3-Yr. War Basis

Contracts with series-wide per-The ten-hour week day with diene for \$75,000,000 mentalan That Douglas Aircraft, Inc., exschedule by the War Production

Reigh V. Hunt, Douglas voypresident and corretroller, who Waste-Improved profection, due to two syndicate participants-Naule. The OMB points out that often supervision is serend too this other fromber banks are as Chacage, Tules, Oldshoma City and b Eccewal of Agreement-Franc-War Preduction Board reports

revolving fund agreement giving Under terms of the recent agreecathecks Production of pinter-\$25,999,600 working capatal. Car-

## House Group Urges Wasp Recruiting End

that warn't we reale nifery he would for duries surgoed so women.

of Women's Air Service Pilots resummed to utility flying, target sion of the Warn program is not

The report says all three of the

than 300 hours before soming the h High Cost Cited... The Resonant training be continued, and that

# Termination Article Adopted to Speed Subcontractor Settlements

Summary of week's developments in formulation of policy and program for post-war industrial mobilization.

over follows of the government to Becaused M. Buruch and Mr. Hanpropers adequately for recon- cock. While generally applying

A surplus disposal bill, based on

The War Department repeated

The SWPA appounced that al-

FUEL TANKS FOR FORTS:

Fibertar Decement - The new

Industry Connection's contract termination bill (the House ver-

MClayten BillionThe surplus dis-Bill" perbably will be introduced

ATher Small Paint-Tr would creased monopolistic tendencies The War Production Board was



There self-realing fuel cells for Flying Furtnesses well be pisced on the

AVIATION NEWS . June 18, 1994

decimans Stree all sales of Goverrorest property must new be

#### Sees Flying Boat Using Land Ports Mueria nasta post-war signifi come in transcovered star that

called on score time are to applica-

securing Meriner, down in dry The take-off of a Martin Marmer from the bed of a dry

Invasion Spurs Meetin said that, if the Mariner PostsWar Planning Plane plane, bear with berry Profiled that they must been

Take-off-The dry lake take-off forced benching gear, later dropped | ketting contracts to become effec-



"Mariner" Reputred on Desert for Dry Takeoff: Namy and Marine techwerene repair the using tip, elleren and foot of a Mariner forced down

The Navy first contemplated dish Bryanien Repuits Awaited-Bowpolary, one determined in execu-

Liest (tor) L A Flynn, ret-

the clane of and lended near San

But don't look for total absenden-

about the post-war planes they the 152-passenger [460 troops] £000 Depriss Average (Sarts

Hanley Assumes Post

China-Burma-India Air Service Rahard C Oliver, whose new au-AVIATION NEWS . June 12, 1944

#### Progress of Invasion Watched For Effect on Plane Production

Top officials in Washington maintain that no immediate change an output rate or employment is to be expected beyond

#### By SCOTT HERSHEY

The appropriat of the invasion of preded their sphedules. This in

for possible effects on the available. Last month, with 5.900 strokess of + Schedule Changes-The tree

Air Force's Job

Boune's B-29 Superfectives The Flands Industry-Wilson overevent degree the course of the au- Ferirmon, then in any corregue

Aircraft production exceeded

March-it was two percent above new high production, with a Flarge Types Stressed -- As Charles

all bomber plants met or ex- needed large types, and a corre nercent of the total surframe

> It was disclosed that the Deutduction of the Laborator and turn \$2,500 Officers and Mon-Con-Willew Ban-Production of B-26

to the Tules and Eart Worth roughs

fidence is the undustry's ability to champing combot requirements—

New Bombing Range A \$5,000,000 Noval positiony six structed on a 700,000-sere pric to

short 2,500 officers and men, will \$650,000 is being spent for implanes within a few weeks. These provinces at the station

#### Airlines Get \$189,054,843 For ATC Contract Work to May 1

Flours is approximately half of \$560 to \$007 regal obligation according to testimony in connection with Military Establishment Appenpriation Bill for the fiscal year 1945.

A Obligations and Percentification

and \$505,500; Transcontingual &

Air Ambulances

The AAF Medical Services

Many of the cases, OWI said,

Oscal year was \$86,711,779, or the current food year ending June 30. Brug. Gen. C. R. Smith economies and improved plans athination, and that estimates of

Alaska, a "very extensive getand islands in the conthwest seed scross the meantains of listin and Chris. In addition, ATC operates

FUse Civilian Personnel - Gen them. With the tables on con-These tables, giving the status 1944, showed contracts prior to TEI and SETE 400. Per American ALTWAYS, \$20,562,562 and \$805... Traction Institute \$355,000 and \$255.666: Southwest Airways Co. dated Vulter Averall Corn. 87 -Restern Air Lines Inc. 500 and

Randolph Heads CFC Bandelph of West Victims as president at its organizational meeting last week, Rep. Melvin J. Many of Minmenuta was elected vice-prendent, and Bap Fred

Recruit 17-Yr -Olds

Gen Wilson Named War Department assessmen en-Staff, ranceeding Brig Gen Hoyt New Constellation In Production Endiscipaci number of CASS

The record-breaking C-69 Constellation transport is now in lim-An understoord number of C-19's

& Western Aur and Pan American > Short-Houl Operations - Noteri

hasts and consequently had post-Fise New Record - Flows by TWA, a Commodistree prototype

New Droptank Use The against belly took w

be excried in the DB-police tasks. A fighter group in Un-

regular cargo service • Converted to "C-60" - P-49's and there easily became known as "C-46"s" The tenks News, New I, 1963. In New Games, Aghteen

transport record of mx bours, 56

Idaho Fivers Man

"Constribution" in Production: Lockhood's record-breaking C-68 to note

Presences construction and maleshoot The military model new Gev. C. A. Battalfren, addressme

sengers, in addition to a cow of Frunds Callected-The surrence

Six-Point Program reported that approximately \$28.-Green formed with view to develocated; of plan for noneway at the end of 1944. The Departcol amplenes to 27,000 univate

Air Marking Other immediate objectives in-After more than those years of

the country, officials of Army, sunsdictions Daferences weren't Coordination of air transports. Brouble, and modifications will be

AVIATION NEWS . June 12, 1844

#### PRIVATE FLYING

## Piper Developments Watched For Hint of Post-War Pattern

Company's dominance of lightplane field and role in supplying aircraft to Civil Pilot Training program put it in strategic position for shift to peacetime production. By BLAINE SYUBBLEFIELD

comes when the war started it was, standardized on Piper's L-4 for and it remains, the world's length artiflery fire control, observation for entired possible delivery to the used in the Civil Pilot Training 1.376 Tromers were sold in additotal to 1,506 for the year principle that if personal flying

tion in 1940 arain beaks all exist-To date. Piper has built about adverteers and at the same true 13 and write in Trainers, Crussers, First Coder \$1,000-Place was



meet the opportunity and the produce about \$5 units per seasth In the past, Paper stack to the production almost any time that cond production line avelocity, some fully, every new development that find, which gives it every some resident



It may seen strange to think of gloss ne of dearest taxous trees and he reasered. Yet that is just what hepof system class fibers-is used to

sestional combones arest strength (as stability (neither shrinks nor exerches) vibration and other stressus. All these features have combined ing this productionary development

residenced playtic is the case with which if a fabricated into complex Machanias in stately, accurate and

Adoptedly, there is much to learn sufficielles have called it a new material of construction. The ingenity plantics and nerv will be order its use

Fiberales Corporation, 1892 Nicholes









combat name manufacturers to As soon so motorials are noun- occatives told the writer deriver speed the growth of American are able, and when it will not injective conference at the Lack Hovern Pa



AVIATION NEWS . Free IS 1944





TWIN ROTOR HILICOPTER DISIGN:

This skytch should a new helicenter departed and being built by Arthur 20,000 ft. its demaner believes

Fixteen-Wheeled Carringes-Progr

the post-war market. But Paper sees no required of a quick jump use in the future. It was bout to of utility, and competition by suite- few works are, attended by au-

# Texas A & M New Civilian Air Center

mebiles and other attractive dura- men from all over the country, and ble goods will held the plane may. This week will conduct a three-day

he officials, operators, owners.

Designed as an annual affrar, the Has Own Alepore-The college

the Department of Accountinal 1963 In addition, it has funcand other Drass localities. The Praint. Texas, which susubed

a Placke Instruction-It is planned syruty of Texas Stribum Acker.



# He covers the continent hetween editions

cible only in military planes, such as travel will become you on every fight which their leaves

the cheare of engineers and openstem effice for reliability, fuel from New York to Lot Anceles factors, plus the Cyclone's low between midwisks and horaldars, maintenance cost, continue to





"QINCE September 9, 1943, the standard operating weight of TWA DC-3 aircraft, consisting of airplane, crew, oil, full eminment and meals has been decreased 261 neurals nor six-· Much lighter yet for tourber than craft for summer operation and 279 pounds per aircraft for winter other nuts

"Interpreted in terms of payload space, which TWA valued at \$173 per pound in 1943, we have found that this weight reduction program has given us the equivalent of an additional DC-3 for our entire fleet of Skyclubs."

SEND FOR FREE BOOTS WEIGHT-SAVING BOOKIET TODAY Comparative weights of various types of self-locking note comprehensively reviewed for the enevetaince of aircraft designers, engineers, operating and maintenance personnel. Copy will be sent you, feet, on request,

Back Alveredt Not Corporation Consul Officer New Course Com. Bust 1

## AO LES. PER PLANE

# BOOTS NIITS SAVE UP TO

tory fighters, bombers, carra carriers. a Inpravious will be used and on com-\* Can be used over and over artiza-

· Approved by all appearances aviation WING-STYLE NUTS

"Coronado" Bossber Bosspor Transport: Turness of cute of entire is conversion of most of its Consolidat

#### THE AIR WAR

#### Improved Warplanes Extend Navy's Penetration Into Enemy Territory

Entergency conversion of bombers into transports for speeds shipment of vital cargo provides preview of what's likely in post-war developments.

cerning powerful Naval air blows hard - working Danntless dive soon to be struck for deeper into madrom hamber Nove's PRI-1 he

radically improved, with increased

stepped up, and Curtan job itself sleeker, fester version being pow-R-2600 envirse four-bladed wrointer This ship too is being fur-

harder blows pearur the heart of Becks for bemby up to 1000

The Martin Morreer (PSM) was

sawaral record-breakens tests, the



AVIATION NEWS . June 12, 1944

motors, and the York from the Avro Prest-War Transports-Strt for tion (originally to be named &cplans of TWA-Pan-American and

into high production, with wide-

consensus of best mulitary and itself may turn up in a wartime

Afficer Gires on the Way-86 passengers at something like 400 mph top speed, crustag at

Convair's Model 27, a still larger of these enmos, with pusher precellers, at Consolidated-Valtoe's Pt Worth plant. This is the so-called 600-passenger plane, to third to one-half of this sumber is

Beeing at the moment seems far production pourses rolling at



Claster Booder Twenty - nound ermement inhoratory at Materiel

h Night Fighters on Offension-Aa general rule, the emphasis in In a typical example Beaufighters

JU-88s or HE-111s) over the

when the bumbers finded their loading lights, the Surriegnes ing some and evaning great con-

ight-fighter version of the Mosusaffe bases have been steadthy ployed in the Mediterranean and

### Cluster Bombs Play Major Role in War

Lers publicated than the giset portant role in bombing attacks.

an seming wire automatically \$ Boarton When they but observed covers an area 200 feet while on

Moondingles Also Used Bonder

<u>Phillips</u>

100-octane

**Phillips** AVIATION GASOLINE

#### PERSONNEL.

Co., Inc., Tules plant, in addi-

in the manufacdivelopment to the Hawarian area

folk ner station Cest Levrence J Chingsian, votorza, Transportusantal & Western Are wint least to the AAP Material Conmarter wellion rules, including 200 -000 males of overwater flying with ten Chappen headed a TWA crew





greening manager in 1940. He is in the air on his log. He few with Heward C. Steiner has been appointed

and Nabber Co. Lift, of Australia He succeeds W. G. Erder, roughed



Defense Art Wass overson, has been Sir Ohner E. Simmonds, M. P. lentic flight abound an American Facrall, former assistant maral at-Eggert siriner by Mr. and Mrs. tache for air at the American Res-William R. Enpart: Enpart to pren-

> Bahasi N. Cewell has been named signed as Washington correspondent of the oberacel seel regularization



for the St. Louis Glabs-Democrat.

Josep P. Jefrey (photo) has been yo-



of two tribs for Consolidated Vul-

mont, a test pilot and sales man Willis H. Rammal conductor artistists

Manual C. State, test engagerer in chosen

Destined to be a Leader in Fine Aviation Oils ... D.X Aviation

Oil has been pre-tested for the age of flight ahead for all of America. Proved in the crucible of war...this high quality, super lubricant has been developed by Mid-Continent, one of the world's largest refiners of superior lubricating oils.

MID-CONTINENT PETROLEUM COPPOPATION TULSA. OKLAHOMA

AVIATION NEWS . June 15, 1994

section of Development Engineering

promotion manager of Jerdanoff dutrict traffic manager for Natural with headquar-



Douglas Arrests Co. Sec. an-

nounces that D. E. Deelso (left).

John Hughen, Str. Men Property Co. statistive engineer at the Santa Monica plant. Sperioder specialized he become executive engineer, he Bad Bogen in project engineer on the new Nirry bumber-terpeds plane, BYD. James Andones in in charge of sales previous for the Pinters Engageer-

> The Trucken J. E Crassilly has been promoted to dynaigh and Fred F. Gigotles has been

entendent of major assembly departengage for the BTD. Sepret was species at the Fort Worth division.



Charles A. "Chref" Kudder, left, skakes houds with William B. Birren, serolu appornted toles and service manager of Wright Aeronautical Corn. Berryn was register has rettial four of the West Coast and was

Compliant succeeds Los E. Whodor Core, Messies M. Rendley, USIN, han pe-

appeared charmen of the aviation TELLING THE WORLD

and Assecutes, St. Louis, effective · Summends Arracessories, Inc., has

sums for the Melville Acronylical . Sperry Corp. is broadcasting da- Box M Terrorian is new director. of public relations with O'Brien pervise of Bound Aircraft of Chia-Starhower, Inc., and now with the E J Posg has resigned as assistant.

\* Albert Weedley Co has taken over the account of Cades Account. AVIATION NEWS . June 12 1864



Branch Offices Bruton - Workinston - Hollowinsk - Mastreel Manufacturing Floris New York - Vermont - Colifernia

# FINGER-TIP CONTROL

# for MARTIN TURRETS

#### A G-E Engineered System That Facilitates Accurate Aiming at 300 Mph

can make those tough for a turnet gumer. But one thing now made easy for him is the control

In a Martin turret, the sunner does not have to move the supe themselves. He apply turns his control hundle—the tierret and suns move correspondingly. Senorthly, speedily, and withcert effort, the memor is able to reals and hold

Egectly what this highly successful system

· Energy fighters hamper 'round a bomber commiss and how the various elements are connected custoot he told. But trencal current

> Electric engineering. For information regarding available systems, and consultation regarding new projects involving electric control, write to

Schenecteds, N. Y.

The G-E Turret Speedcontrol System

This tentral Crit strengt venture for Elistes control of the boyet and its nees. White its loved and engineers conflictions maner he revenied. compensate lactures the following-

I. TURRET DRIVE MOTOR Standard G-E struction and light weight Equipped with steel shell aluminum or magnesium end 2. ARCEAST AMPLIONNE Provides mon-

3. DELYDIZ-CURRENT RELAY Automotically

S. AIRCRAFT D.C GENERATOR, Supplies



AND ENGINEERED SYSTEMS FOR AIRCRAFT







#### AIRCRAFT PRODUCTION

#### Britain Releases First Summary Of Wartime Plane Production

Output for 12 months ended March 31 totals 27,000 aircraft compared with 95,782 turned out by U. S., according to official

Lendon data Great Britain's annual aircraft tissual types also was relative, with

planes. In the same 12 months, the \$.000 in 1828 and 15,000 in 1948. United States had produced \$5.782 04.000.002 pounds for December

then 2009 under 2000 in 1928.

P. Traingra... The largeage in oners...

not far abort of four times the weight of 1940, in which concenh Efficiency Stepped Up.,... Irrorney.

tion in 1940. The percentage of British women

1998 floures American employ-

for each 160 compalete graft built

#### Monsanto Develops New Plane Plastic

Produced for some time on an

Bleat Distortion Point...The best distartion name of Ceres is above every F. This is bucher than any

AVIATION NEWS . June 12, 1500

TEST CHAMBER FOR RADIO EQUIPMENT: An 18-ton test chamber that well permit many experiments hisherto eleven feet in dismeter, was best by the Kold-Bold Manufacturing Co., Some of the material new in



# Pioneers for

CLE-AIR Stock Absorbers present hours,

For half a crossry, The Cieveland Possessic Tool Company has devoted itself to service many major industries." Skilled technicians and expetion to matel working plants. AEROLS Othe aback absorbory London over sond many products for each of these helds. Thus initiative and resourcefulness se andormally on aircraft) desare age, most landary and take oft, CLEYEhave enabled us to keep aborast of this countries remarkable industrial progress . . . We are commensorating our golden anxiety are to con-LAND Rock Drills are widely used in rimine to tut all our release and exercise in the fight to treasure the the mining and centracting fields.

American war of life. We are proud to have grown with our nation for 50

Bay U.S. Wor Spads and Stomes THE CLEVELAND PNEUMATIC TOOL COMPANY

AND SUBSIDIARIES

AVIATION NEWS . June 12, 1944

# NOW! A flush door lock for aircraft

Projecting door handles are eliminated by the new Hartwell flosh door look. It presents a smooth flat surface: incompas streamlining and aids perform. ance. The lock comes assumed with recurring plate. variable skin-thickness adapter plate, and a key lock, which is built into the push-button control. Designed for fast warrolanes, the new Hartwell flush door lock will be a streamlining most on all peacetime planes. Write our Los Angeles office for complete engineering details for this "airage" door lock.



Push-butten release. To open the plane floor from the outside, the release button is pressed, as shown here. This bardle to slide forward

Convenient orig, In the released postion, the handle-measuring 3 in across -provides a convenient grip It can be

penhed back rate along from the outside, or stalled flush when the door is



Profile of hundle. This cutaway view ening or by abortaning the inner door The Phythreal doubledge lock is shown above in the some motion. It is adapter plate, fack-reveted to the mounting place To cotall the sigfrome builder has only to make a corde except for the adepter plate.

Single source for 779 different aircraft

production parts and tools

became used in aircraft bettery cases.

Surplus Inventories To Go Into Storage Mends Reserve Corp. contracts

meserials insued of 160 as origis expected to make handling

be great, since spaces have been field, but in September brought out Ford Speeds Output No tabulation of value is possible

In Platt-LePage

dition, Rhoem will take an active

Seventy percent socretic in gro-2,000 hp engine and a 25 percent

Rheem Buys Interest Purchase of the stark makes

New Plane Insulation A new type of slass fiber unsulnunder an agreement with other our war planes, weighing only 4/100 pound per square foot-





MOSOUTTO ASSEMBLY LINE:

#### Test AAF Equipment In "Largest Icebox"

Henr Wright Field cold chumber is his enough to bouse fusciase

the 60,000 cubic foot expacity re-Brused in its own buildrag, the cold chamber can accommodate 155 Relaw Zero - Although a can drop to \$5 below seen A wide variety of equipment already has been tested in the chamber, including both equiptitudes, and ground equipment

of the tests so on for days, weeks

chamber, and his staff are cenvisced that the equipment is suft- and to seal the cold air within the New Devices Added-While our for the last four months, additional

Some tests require continual three hours. Electronily hested

satisfactory. The felt is thick dense readily on felt, to that there is less danger of prossure freezing meeds, according to testimony bethe refrageration units. Observa-

capes of stage, to prevent frosting,

Helium Plants Meet Huge War Needs New wits turning out on times pre-war output at price of two

cross a cubic foos. pures with \$2,599 25 years ago Interior Department officials Felt Marky Used-Finally with loons, meteorological bulloons and the help of Materiel Command other war uses, and that producthe mesk producing, about the New Plants Meet Decrand-New

The Amerika Tex , plant has abling engineers to watch tests producing five times up ourmal from the more comfertable tem- volume. A new what at Excelperatures estable, have eacht Tex, provided as much in seven







foreceratures at which they work. Thru are shouse at tell doors manny open to salway a track and trailer AVIATION NEWS . Age 12, 1914



#### THE ELECTRONIC TURBO

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2. Male Turke Control Janciero See 1. Turks Gentral Ambidier 4. Namely Turks Control Sentitive State 5. Industry System Presumetral 1. Yards Wosts Gate Motor

The Barmonic Coursel Statum for turbountercharges is another Honorwell contribution to rafer and more efficient homber operation. complexely successive control of manifold pressures and accurately coverned perha spends. All four engines are constolled by the setting It gives Formers and Liberator pilots more time to fight - more sures and surbo speeds.

When virtues is mon, the same engineering ability that has concributed so much to wartime firing, will be roady to help with peacesime arronautical problems. . . . Minneapolis-Horecwell Revulator Company, 2947 Fourth Avenue South, Minneapolis 8, Minneson.

PERSONAL CONTROL STREET, Or the APROBABILICAL INDUSTRY Honeywell

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Small plants will be built soon Despite warmings that the coun-

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Attentive and narrows of the water south, and Herbert R. Williams, West

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was told at a recent meeting in Canadian Output

Ges. William S. Kundren. The plant is shifting from Ventespre disc.





#### "...YOU SAY VIBRATOR POWER SUPPLIES CAN INCREASE SAFETY AND COMPORT IN PLANES?"

Mrs. W. A. PATTEREDN, Provided of United the Lines, recently and re-





on the country More than 700

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California Planes is proud to be one of the cuspon's suppers provide neets have helped to drags some of America's raspar was planes,

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## TRANSPORT

#### Airlines Seek Price Formula For Return of Planes from Army

Representatives of seven communies and ATA find problem too

complicated to solve at special meeting in Chicago. By MERLIN MICKEL

A group of agrice represents- that it was intended to establish a

Donus Problem—is the borrs re-

Beronversion Costs-The return

Officials of neven lanes and the tenden to office to some extent ex-Description Factor-The decay of the CAR marriage formula or





ADDITIVE OFFICIALS AT DENVERJOS ANGELES HEARING

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Cincinnati-N. Y. Case May Be Enlarged I Curb. Witnesses... The everences with TWA and American in con-

Aerovias Braniff Case Expanding The case grown out of a TWA was postpoord once when the

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Oral Arguments End In Denver-L. A. Case CAL official asks Board to dittre-

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#### More Lines File For New Air Services Tevas-Oklahoma Applications never in after re-

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So. Americans Ask Schedule Incresses Expension of mucht fiving sur-

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Order Suspended While the proposal to receal the Civil Aeroniustics Board ban

The rule will probably be manpended for the duration, but the

# Why Most Major Airport Fueling Installations are BOWSER!

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Dependability-Bower dependability is supported Serv-A-Plane - For medicas and smaller atmosts, or to operate, Serv-A-Plana as a complete airport survice station certifily self-costumed. Astarnov





#### Clark Subcommittee Studies Labor Stand

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## Airlines May Design Their Own Planes

Next 20 Years portation W. W Donies.

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Foreign Reinsurance "Dangers" Doubted U. S. aviation underwriters dis namenal security is imperiled.

No Servet Data Reavaled To

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Perfect Record American Export Aldian clears a perfect flight safety

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This new "une-recurior" nice, on which flexible names set ampliane

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#### Cites Perils of State Air Laws

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# The Story of "The Hump" - the world's most dangerous overland air route



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CONSOLIDATED VULTEE







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No spot on earth is more then 60 hours' flying time from your local airport





AIRCRAFT Rose Dichestrife Wayner High Statistics See Statistics High



## Urge 3 New Federal Transport Agencies

Levislative amountments offert-

Low Cost Air Fares CAR SCHEDULE

trips. V P. Courty, traffic vice-

up under the 1940 act. It consists

Almost Drawn, Stewa Woods. ENGINE DESIGNERS IMMEDIATE OPENINGS York Research Corp., 101 PASS AVE., HIW TOSS CITY

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AVIATION NEWS . June 12, 1866



his the company favorical by Sheeman M. Frinchild, who developed shore obstacles, and other data ossested to successful combat. In siddle Far all of these purposes. Fairtfuld makes these extremely accounts.

28-05 VAN WYCK BOULEVARD JAMAICA 1 N. Y. . New York Office 475 Tentus Avenue, New York 14, N. Y. THE STORY OF ARRIAL PROTOGRAPHY IS THE STORY OF PAIRCRILD CAMERAS AVIATION NEWS . June 15, 1944

# Airmail Simurion Reported Improved officeding situation is improved,

Officeding declines and also to

ne appreciable effect on airmail Not all the returned planes al-> Example to Official never

up nearly 30 percent above the same mouth a year ago totaled 8,331,155 in April, com-

# India New and Post-war

To manufacturers of sixtraft, new engines, asymmetrial asymmetri To minicartains of signat, any engine, amusantesi epopular, accessing subsiding system, ratio, secondaria indicag and hardred lines. The Anna All Americanes—a Descripty with consider an investment of the control of t

#### Bank and other references submitted. Communicate direct to:

THE ASIAN AIR ASSOCIATES Warnil Stones, 15 Graham Road - Bafferd Estate, Fact. Rosshaw

read to however on restweek days, March had four. Partherrence

Fire American announces that be-1945, it flew 1,306 ocean crimingsmond, 2,800 for the Kuyal Air Strategies service, one one cour-ficialed routes and 45 special zen-sites. Of the 7,885, 4,865 were

plane a 225 mph guerrer mend

This shows a 7.33 percent de- thirs in conjunction with transport

# Philadelphia Port

Problem Solved Solution of the Philadelphia ar-

entail a responsibility in ingreasone the bassed to the City of Phil-

#### Sternberg Promoted Walter Sternberg has been pro-

rested to general traffic magazine dent. Mr. Sternberg joined Easters Air Transport in December. 1990, an operations and traffic repCAB ACTION

Art name, Fig. American Comer Arrayo, Sec. ed A. Gara in a sport before of and charge most with the fined should not broke on order of 15th oblich started from the charge provide fallowinding sentiate Gaza is a choice for the first proper first fallowing from the first provide fallowinding sentiate Gaza is a choice for the first provide fallowinding sentiate Gaza for a choice for the first provide fall of the first provide fall of the first provide fall of the first provide for the first provide for the first provide fall of the fir

head sensions in Aidin and Hone PW 100, AWAZIGN NEWS 10 North Muldow Ave. Chiarte 11. III



# the new economy of the West

Helping to mould

Fires from the furnaces of new undarry-light metals, heavy seed, hadro electric power-see a symbol of the new economic soldfor of the West-already rith an agriculture, lamber, oil fabling, mesting. New woulds has open too, in the skill of workers who are in the West to stay. This expanding economy the West-to bring new service to many communities now assisted.

Re-establishing of San Francisco Los Angeles service May 1 was a major step in its long mage program. Other place include applications to comme nearly 6000 males of new secondary and feeder course. Tude owns only CAB approval and the release of places from urgest war duty.

#### FINANCIAL

#### Airline Officials' Stock Purchases In Own Firms Are 71/2 Times Sales Report to Securities and Exchange Commission shows 17,708 shares were bought and 2.345 sold during April

Masters-Paul H Brattam, vac-

chase of 2,000 common last De-Alexander C Dick secretary,

6,000 creamon through an exer-New AAF Lab

equipment laboratory was a

Samuel J. Salemon, director of

of 166 votase trust certificates for

Musely I Peale, vice-president

#### Braniff Salaries. Earnings Reported

Businell Astronomy, Inc., prof. the ams, muratary-treasurer, received

Directors The anamoute reman-

Friets' Salaries - Three pilot

Deductions amounted to \$456.

Marmall Rate Case-The report

\$651,866 for federal moome and

Aviation Salesmoon Planned in Chicago

It is reported that Curton-

Decree Restricted—However, at an craft War Production Council

individual efforts. It is expected

Stock Offered An issue of 112,222 shares of

Furnisure and Phone-Whetener

Subcontracts Sought that some other manufacturers For Brewster Plant Afforts still were being made last

> \*Lavefle-The company, whom lad off 5494 workers list work

Financial Reports Blendix Aviation Corp. reports grouped from \$1,874,468,500 last

C-54 Output Up Timken to S. A.

ten, Ono, antiopating a greatly

AVIATION NEWS . June 12, 1944

Whiting and in Chicago that

#### Invasion

The critical reads of air power's task has began 11,000 planes from two, those or even four sortes a day. The fleet is still growing It must be backed up perceime sob. This is what we've been working for

## Costly Economy

to realize why our highest military officers deter-

- 4 Power-plant installation fire tests
- 4 Stall warning indentors 8. Automoti essential characteristics recorder-
- 21 Photographic enopyrical for measuring air- men and women should not be identical and why the

moment with work on property directly concerned

Bedget Bernin's attempts at economy are short-

#### on the next supplemental appropriation. Straight Thinking

The Pursac Server usued by the House Committee Service Pilota, is an excellent summary. All the

tigating staff has presented a sample, straightforlimits were dropped for women tramees, yet men involving 2,500 graduate trainers and speak \$50,000 -

whether arrives are feroy or private. In the long dullars of mables funds, ment with the suproval and at the Insulence of the War Department, to train

AVIATION NEWS . June 12, 1944

ROBERT H. WOOD

# ...and in SYNTHETICS its

# GENERAL for TOP-QUALITY!

# WHAT HAPPENS AFTER

REPEATED LANDINGS? consour rire, here is shown mounted on a huge dynamometer. Any potential weakneura actions from militar and the mounted tire is "Isoded" -serup and assip-so the flywheel whose surface speed General passed the test for extreme landing speeds with fixing colors ... i just as it pessed many similar rigid laboratory



#### service conditions General Synthetic-Nylon Aircraft Tires Meet and Better General's Rigid Performance Standards!



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